

Serial No. 10/774,969

Atty Dkt No. GP-302194 (GM0292PUSD)

In The Claims

Please cancel claims 1-26.

27. (original) A multi-speed transmission comprising:

an input shaft;

an output shaft;

a stationary member;

first, second and third planetary gear sets each having first, second and third members;

a first and second input clutch connected with said input shaft;

said second member of said second planetary gear set being continuously connected with said second input clutch;

a first interconnecting member continuously interconnecting a member of said second planetary gear set with a member of said third planetary gear set; and

nine torque-transmitting mechanisms for selectively interconnecting said members of said first, second or third planetary gear sets with said first or second input clutch, said output shaft, said interconnecting member, said stationary member or with other members of said planetary gear sets, said nine torque-transmitting mechanisms being engaged in combinations of at least three to establish at least five forward speed ratios and a reverse speed ratio between said input shaft and said output shaft.

28. (original) The transmission defined in claim 27, wherein a first and second of said nine torque-transmitting mechanisms are selectively operable for interconnecting a first member and a second member of said first planetary gear set, respectively, with said first input clutch.

29. (original) The transmission defined in claim 27, wherein a third and fourth of said nine torque-transmitting mechanisms are selectively operable for interconnecting said first and second members of said first planetary gear sets with a first member of said second planetary gear set and said output shaft.

30. (original) The transmission defined in claim 27, wherein a fifth and

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sixth of said nine torque-transmitting mechanisms are selectively operable for interconnecting members of said second planetary gear set with members of said third planetary gear set.

31. (original) The transmission defined in claim 27, wherein a seventh of said nine torque-transmitting mechanisms is selectively operable for interconnecting a member of said first planetary gear set with said stationary member.

32. (original) The transmission defined in claim 27, wherein an eighth and ninth of said nine torque-transmitting mechanisms is selectively operable for interconnecting members of said third planetary gear set with said stationary member.

33. (original) The transmission as defined in claim 27, further comprising a tenth torque-transmitting mechanism.

34. (original) The transmission defined in claim 33, wherein a first and second of said ten torque-transmitting mechanisms are selectively operable for interconnecting a first member and a second member of said first planetary gear set, respectively, with said first input clutch.

35. (original) The transmission defined in claim 33, wherein a third, fourth and fifth of said ten torque-transmitting mechanisms are selectively operable for interconnecting said first, second and third members of said first planetary gear sets with a first member of said second planetary gear set and said output shaft.

36. (original) The transmission defined in claim 33, wherein a sixth and seventh of said ten torque-transmitting mechanisms are selectively operable for interconnecting members of said second planetary gear set with members of said third planetary gear set.

37. (original) The transmission defined in claim 33, wherein an eighth and ninth of said ten torque-transmitting mechanisms are selectively operable for interconnecting members of said first planetary gear set with said stationary member.

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38. (original) The transmission defined in claim 33, wherein a tenth of said ten torque-transmitting mechanisms is selectively operable for interconnecting a member of said third planetary gear set with said stationary member.

39. (original) The transmission defined in claim 33, wherein said first, second and third members of said planetary gear sets comprise a sun gear member, a ring gear member and a planet carrier assembly member, and wherein planet carrier assembly members of a plurality of said planetary gear sets are of the single pinion type.

40. (original) The transmission defined in claim 33, wherein said first, second and third members of said planetary gear sets comprise a sun gear member, a ring gear member and a planet carrier assembly member, and wherein planet carrier assembly members of a plurality of said planetary gear sets are of the double pinion type.

41. (original) The transmission defined in claim 33, wherein each of said ten torque-transmitting mechanisms comprises a synchronizer.

42. (original) The transmission defined in claim 33, wherein said first input clutch is applied for odd number speed ranges and said second input clutch is applied for even number speed ranges.

43. (original) The transmission defined in claim 33, wherein said first input clutch is applied for even number speed ranges and said second input clutch is applied for odd number speed ranges.

44. (original) The transmission defined in claim 33, wherein selected ones of said ten torque-transmitting mechanisms are engaged prior to gear shifting to achieve shifting without torque interruptions.